

INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.  
FUK-81

Serial No.

09/762497

Applicant  
Shojiro KAWAKAMI et al.

Filing Date  
February 7, 2001

Group

2872

U.S. PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

CHC	AR	International Preliminary Examination Report including cover sheet, Box I, Box V, Supplemental Box, and Box VIII
	AS	
	AT	

EXAMINER:

Craig H. Curtis

DATE CONSIDERED:

26 June 2002

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.  
FUK-81Serial No.  
09/762,497Applicant  
Shojiro KAWAKAMI et al.Filing Date  
February 7, 2001

Group 2872

## U.S. PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
CNC	AL	10059746 A	03/98	Japan	C03C	17/34	X	
CNC	AM	62-269104 A	11/87	Japan	G02B	5/30	X	
CNC	AN	62-289804 A	12/87	Japan	G02B	5/30	X	
CNC	AO	09304611 A	11/97	Japan	G02B	5/18	X	
CNC	AP	3-75705 A	03/91	Japan	G02B	5/30	X	

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

CNC	AR	CHENG, Chuan C., SCHERER, Axel, TYAN, Rong-Chung, FAINMAN, Yeshayahu, WITZGALL, George, and YABLONOVITCH, Eli, "New Fabrication Techniques for High Quality Photonic Crystals," American Vacuum Society, pp. 2764-2767, Nov/Dec 1997.
CNC	AS	The Electronics Society, "The Transactions of the Institute of Electronics, Information and Communication Engineers C-1," The Institute of Electronics, Information and Communication Engineers, Vol. J81-C-I No. 2, pp. 108-109, February 1998.
CNC	AT	"Physical Review B, Condensed Matter," The American Physical Society, Volume 54, Number 16, pp. 11245-11251, October 15, 1996.

EXAMINER:

Craig H. Curtis

DATE CONSIDERED:

26 June 2002

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.  
FUK-81Serial No.  
09/762,497Applicant  
Shojiro KAWAKAMI et al.Filing Date  
February 7, 2001

Group 2872

## U.S. PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
CNC	AL	4-36703 A	02/92	Japan	G02B	5/30	X	
CNC	AM	61-17103 A	01/86	Japan	G02B	5/30	X	
CNC	AN	5-215919 A	08/93	Japan	G02B	5/30	X	
CNC	AO	61-262705 A	11/86	Japan	G02B	5/30	X	
	AP							

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

CNC	AR	Cassagne, D., Jouanin, C., and Bertho, D., "Hexagonal Structures for Two-dimensional Photonic Crystals," pp. 341-344, 1996.
CNC	AS	Cassagne, D., Jouanin, C., and Bertho, D., "Two-dimensional Photonic Band Gaps: New Hexagonal Structures," pp. 497-505, 1996.
CNC	AT	KAWAKAMI, Shojiro, HANAIZUMI, Osamu, SATO, Takashi, OHTERA, Yasuo, and KAWASHIMA, Takayuki, "Fabrication and Observation of 3D Photonic Crystals Composed of Si/SiO <sub>2</sub> with Sub-Micrometer Periods," Research Institute of Electrical Communication, Vol. J80-C-I, No. 6, pp.296-297, 1997.

EXAMINER:

Orally H. Curtis

DATE CONSIDERED:

26 June 2002

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.  
FUK-81Serial No.  
09/762,497Applicant  
Shojiro KAWAKAMI et al.Filing Date  
February 7, 2001Group **2872**

## U.S. PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

<i>one</i>	AR	KAWAKAMI, Shojiro, SATO, Takashi, and KAWASHIMA, Takayuki, "Mechanism of Shape-Formation for 3D Periodic Nanostructures by Bias Sputtering," Research Institute of Electrical Communication, Vol. J81-C-1, No. 2, pp. 108-109, 1998.
<i>one</i>	AS	HAMANO, T., IZUTSU, M., and HIRAYAMA, H., "Possibility of Polarizer Using 2D Photonic Crystal," 1997.
<i>one</i>	AT	"Equatran-G All Purpose Equation Solver for Windows," Chemical Industry, Vol. 50, No. 1, pp. 47-52, 1999.

EXAMINER:

*Draight Curtis*

DATE CONSIDERED:

*26 June 2002*

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.  
FUK-81Serial No.  
09/762,497Applicant  
Shojiro KAWAKAMI et al.Filing Date  
February 7, 2001

Group

2872

## U.S. PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
CNE	AL	4-36703 A	02/92	Japan	G02B	5/30	X	
CNE	AM	61-17103 A	01/86	Japan	G02B	5/30	X	
CNE	AN	5-215919 A	08/93	Japan	G02B	5/30	X	
CNE	AO	61-262705 A	11/86	Japan	G02B	5/30	X	
	AP							

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

CNE	AR	Cassagne, D., Jouanin, C., and Bertho, D., "Hexagonal Structures for Two-dimensional Photonic Crystals," pp. 341-344, 1996.
CNE	AS	Cassagne, D., Jouanin, C., and Bertho, D., "Two-dimensional Photonic Band Gaps: New Hexagonal Structures," pp. 497-505, 1996.
CNE	AT	KAWAKAMI, Shojiro, HANAIZUMI, Osamu, SATO, Takashi, OHTERA, Yasuo, and KAWASHIMA, Takayuki, "Fabrication and Observation of 3D Photonic Crystals Composed of Si/SiO <sub>2</sub> with Sub-Micrometer Periods," Research Institute of Electrical Communication, Vol. J80-C-I, No. 6, pp.296-297, 1997.

EXAMINER:

Craig H. Curtis

DATE CONSIDERED:

26 June 2002

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE STATEMENT

Atty. Docket No.  
FUK-81Serial No.  
09/762,497Applicant  
Shojiro KAWAKAMI et al.Filing Date  
February 7, 2001

Group

2872

## U.S. PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

CMC	AR	HAMANO, T., HIRAYAMA, H., and AOYAGI, Y., "Fabrication of Semiconductor 2-Dimensional Photonic Band Crystals Using Selective Growth," Inst. Phys. Chem. Res., 26p-G-2, 1996.
CMC	AS	HAMANO, T., HIRAYAMA, H., and AOYAGI, Y., "Fabrication of 2D Photonic Band Crystal Cavity by Selective Growth and its Optical Characteristics," RIKEN., 30a-NC-11, 1997.
	AT	

EXAMINER:

Craig H. Curtis

DATE CONSIDERED:

26 June 2002

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.